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1 Self-Managed Systems: an Architectural Challenge
Jeff Kramer, Jeff Magee
May 2007 FOSE '07: 2007 Future of Software Engineering
Publisher: IEEE Computer Society
Full text available: ⬚ pdf(452.34 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 452, Citation Count: 4

Self-management is put forward as one of the means by which we could provide systems that
are scalable, support dynamic composition and rigorous analysis, and are flexible and robust in
the presence of change. In this paper, we focus on architectural ...

2 Heterogeneous temporal probabilistic agents
Jürgen Dix, Sarit Kraus, V. S. Subrahmanian
January 2006 ACM Transactions on Computational Logic (TOCL), Volume 7 Issue 1
Publisher: ACM
Full text available: ⬚ pdf(341.33 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 90, Citation Count: 1

To date, there has been no work on temporal probabilistic agent reasoning on top of
heterogeneous legacy databases and software modules. We will define the concept of a
heterogeneous temporal probabilistic (HTP) agent. Such agents can be built ...

Keywords: Probabilistic reasoning, logic programming, multiagent reasoning, temporal
reasoning, uncertainty

3 Predicting problems caused by component upgrades
Stephen McCamant, Michael D. Ernst
September 2003 ESEC/ FSE-11: Proceedings of the 9th European software engineering conference
held jointly with 11th ACM SIGSOFT international symposium on Foundations of
software engineering
Publisher: ACM
Full text available: ⬚ pdf(142.32 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 53, Citation Count: 5

We present a new, automatic technique to assess whether replacing a component of a software
system by a purportedly compatible component may change the behavior of the system. The
technique operates before integrating the new component into the system ...

Keywords: software components, software upgrades, specification matching

4 Predicting problems caused by component upgrades

Stephen McCamant, Michael D. Ernst

September 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 5

Publisher: ACM

Full text available: pdf(142.32 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 53, Citation Count: 5

We present a new, automatic technique to assess whether replacing a component of a software system by a purportedly compatible component may change the behavior of the system. The technique operates before integrating the new component into the system ...

Keywords: software components, software upgrades, specification matching

5 A component-based approach to building formal analysis tools

R. E. Kurt Stirewalt, Laura K. Dillon

July 2001 ICSE '01: Proceedings of the 23rd International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available: pdf(146.78 KB) Publisher Site   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 13, Citation Count: 6

Automatic-verification capability tends to be packaged into stand-alone tools, as opposed to components that are easily integrated into a larger software-development environment. Such packaging complicates integration because it involves translating ...

6 HydroJ: object-oriented pattern matching for evolvable distributed systems

Keunwoo Lee, Anthony LaMarca, Craig Chambers

October 2003 OOPSLA '03: Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

Publisher: ACM

Full text available: pdf(311.06 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 58, Citation Count: 5

In an evolving software system, components must be able to change independently while remaining compatible with their peers. One obstacle to independent evolution is the *brittle parameter problem*: the ability of two components to communicate can ...

Keywords: HydroJ, XML, distributed systems, dynamic dispatch, object-oriented programming, pattern matching, semi-structured data, software evolution, ubiquitous computing

7 HydroJ: object-oriented pattern matching for evolvable distributed systems

Keunwoo Lee, Anthony LaMarca, Craig Chambers

November 2003 ACM SIGPLAN Notices, Volume 38 Issue 11

Publisher: ACM

Full text available: pdf(311.06 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 58, Citation Count: 5

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Keywords: HydroJ, XML, distributed systems, dynamic dispatch, object-oriented programming, pattern matching, semi-structured data, software evolution, ubiquitous computing

8 Etherfuse: an ethernet watchdog

Khaled Elmeleegy, Alan L. Cox, T. S. Eugene Ng

August 2007 SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications
Publisher: ACM
Full text available: pdf(322.98 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 152, Citation Count: 0

Ethernet is pervasive. This is due in part to its ease of use. Equipment can be added to an Ethernet network with little or no manual configuration. Furthermore, Ethernet is self-healing in the event of equipment failure or removal. However, there are ...

Keywords: count to infinity, ethernet, forwarding loop, network watchdog, reliability

9   Etherfuse: an ethernet watchdog
Khaled Elmeleegy, Alan L. Cox, T. S. Eugene Ng
October 2007 ACM SIGCOMM Computer Communication Review, Volume 37 Issue 4
Publisher: ACM
Full text available: pdf(322.98 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 152, Citation Count: 0

Ethernet is pervasive. This is due in part to its ease of use. Equipment can be added to an Ethernet network with little or no manual configuration. Furthermore, Ethernet is self-healing in the event of equipment failure or removal. However, there are ...

Keywords: count to infinity, ethernet, forwarding loop, network watchdog, reliability

10 A semantic information integration tool suite
Jun Yuan, Ali Bahrami, Changzhou Wang, Marie Murray, Anne Hunt
September 2006 VLDB '06: Proceedings of the 32nd international conference on Very large data bases
Publisher: VLDB Endowment
Full text available: pdf(443.05 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 105, Citation Count: 0

We describe a prototype software tool suite for semantic information integration; it has the following features. First, it can import local metadata as well as a domain ontology. Imported metadata is stored persistently in an ontological format. Second, ...

11 Viptos: a graphical development and simulation environment for TinyOS-based wireless sensor networks
Elaine Cheong, Edward A. Lee, Yang Zhao
November 2005 SenSys '05: Proceedings of the 3rd international conference on Embedded networked sensor systems
Publisher: ACM
Full text available: pdf(18.57 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 65, Citation Count: 0

We are announcing the first release of Viptos (Visual Ptolemy and TinyOS), an integrated graphical development and simulation environment for TinyOS-based wireless sensor networks. Viptos allows developers to create block and arrow diagrams to construct ...

Keywords: TOSSIM, modeling, nesC, ptolemy II, simulation, tinyOS, visualsense, wireless sensor networks

12 Vietnam remembered: reflections on a war an interactive learning resource
Kenneth Hoffman
July 2005 SIGGRAPH '05: ACM SIGGRAPH 2005 Educators program

Publisher: ACM
Full text available: pdf(372.95 KB)   Additional Information: full citation, abstract

This presentation documents the creation of an interactive multimedia CD about the Vietnam War. Material used in the CD was selected from a website devoted to collecting reminiscences about the War from people who were affected by it. The website was ...

13 The space station information system and software support environment
C. W. Pittman
April 1988 I CSE '88: Proceedings of the 10th international conference on Software engineering
Publisher: IEEE Computer Society Press
Additional Information: full citation, abstract, index terms

The Space Station will be a large, permanent, multi-purpose facility with comfortable living quarters for a crew of up to eight people. It will consist of four habitable modules and a truss to which payloads which do not require human involvement can ...

14 Intelligent support for the engineering of software (panel paper)
Gerald Jay Sussman
August 1985 I CSE '85: Proceedings of the 8th international conference on Software engineering
Publisher: IEEE Computer Society Press
Full text available: pdf(297.62 KB)   Additional Information: full citation, abstract, references, index terms

Engineers of large systems must be concerned with both design of new systems and maintenance of existing systems. A great deal of effort goes into arranging things so that systems may be maintained and extended when needed, and that new systems fit into ...

15 Eye-movement-contingent release of speech and "SEE"- multi-modalities eye tracking system (poster session)
Weimin Liu
November 2000 ETRA '00: Proceedings of the 2000 symposium on Eye tracking research & applications
Publisher: ACM
Full text available: pdf(134.02 KB)   Additional Information: full citation, abstract, index terms

A novel research method, the eye-movement-contingent release of speech method, was developed to examine the use and nature of the sound code in visual word recognition in reading. A new multi-modalities eye tracking system ("SEE") was developed ...

16 DAISY: dynamic compilation for 100% architectural compatibility
Kemal Ebcioğlu, Erik R. Altman
June 1997 I SCA '97: Proceedings of the 24th annual international symposium on Computer architecture
Publisher: ACM
Full text available: pdf(1.97 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Although VLIW architectures offer the advantages of simplicity of design and high issue rates, a major impediment to their use is that they are not compatible with the existing software base.

We describe new simple hardware features for a VLIW machine ...

Keywords: binary translation, dynamic compilation, instruction-level parallelism, object code compatible VLIW, superscalar

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17 DAISY: dynamic compilation for 100% architectural compatibility

Kemal Ebcioğlu, Erik R. Altman
May 1997 ACM SIGARCH Computer Architecture News, Volume 25 Issue 2
Publisher: ACM

Full text available: pdf(1.97 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 62, Citation Count: 75

Although VLIW architectures offer the advantages of simplicity of design and high issue rates, a major impediment to their use is that they are not compatible with the existing software base. We describe new simple hardware features for a VLIW machine ...

Keywords: binary translation, dynamic compilation, instruction-level parallelism, object code compatible VLIW, superscalar

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18 Software merge: semantics of combining changes to programs

Valdis Berzins
November 1994 ACM Transactions on Programming Languages and Systems (TOPLAS),
                Volume 16 Issue 6
Publisher: ACM

Full text available: pdf(2.07 MB)   Additional Information: full citation, abstract, references, cited by, index terms,
                                                                    review

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 33, Citation Count: 5

We present a language-independent semantic model of the process of combining changes to programs. This model extends the domains used in denotational semantics (complete partial orders) to Boolean algebras, and represents incompatible modifications as ...

Keywords: domains, semantics, software change merging, software maintenance

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19 Language design and standardization

William Carlson
December 1990 TRI-Ada '90: Proceedings of the conference on TRI-ADA '90
Publisher: ACM
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

As Ada 9X unfolds, it is valuable to examine the evolution of Ada-83 to determine the strengths and weaknesses of both the design process and the language. Ada is the outgrowth of the DoD Language Standardization, Convergence and Modernization program, ...

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20 Simulation of a computer system with single and dual density discs

Mark Franklin, David Looney
June 1973 ANSS '73: Proceedings of the 1st symposium on Simulation of computer systems
Publisher: IEEE Press
Full text available: pdf(686.63 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Citation Count: 0

The question of replacing a single density, two-channel, two-controller disc system with a less costly, plug compatible, dual density, single channel, single controller system having the same capacity is considered. A simulation model is designed to ...

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